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MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS, HELD
AT THE LICK OBSERVATORY, JULY 12, 1890.

A quorum was present. The minutes of the last meeting were read and approved.

The following memorandum was presented:

ACTION OF THE MERCANTILE LIBRARY ASSOCIATION, RELATING TO THE
CARE OF THE BOOKS BELONGING TO THE ASTRONOMICAL
SOCIETY OF THE PACIFIC.

On Tuesday, April 1, 1890, at a meeting of the Mercantile Library Association, of San Francisco, on motion of Mr. WATKINS, it was voted—"that the Astronomical Society of the Pacific be permitted to place the books belonging to them in the rooms of the Mercantile Library Association, and that the members of the Association shall have the privilege of using said books in the Library rooms; the books to be subject to the same regulations as the books of the Library Association, and the Library not to assume any responsibility therefor."

The President and Secretary of the A. S. P. (duly authorized thereto, May 31, 1890), in a letter dated June 16, 1890, have on the part of the Society, accepted this courteous offer, and have expressed to the Directors of the Mercantile Library Association its cordial thanks.

The following members* were duly elected:

THEODORE ADAMS,	833 N. Broad Street, Philadelphia, Pa.
Rev. FRANK H. BIGELOW,	{ Nautical Almanac Office, Washington, D. C.
W. W. CAMPBELL,	Observatory, Ann Arbor, Michigan.
F. J. CASTELHUN,	502 Montgomery Street, S. F., Cal.
E. A. DENICKE,	403 Market Street, S. F., Cal.
THOMAS GWYN ELGER, F. R. A. S.,	{ Beaumont House, Shakespeare Road, Bedford, England.
H. GRATTAN GUINNESS, D. D., F.R.G.S.	Bow, London, England.
G. E. HALE,	4545 Drexel Boulevard, Chicago, Ills.
Hon. A. KING,	Julian Street, San José, Cal.
JAMES JENNINGS McCOMB,	175 W. 58th Street, New York City.
W. H. S. MONCK, F. R. A. S.,	16 Earlsfort Terrace, Dublin, Ireland.
Hon. B. D. MURPHY,*	San José, Cal.
THE NEWBERRY LIBRARY,	Chicago, Ills.
HENRY PHIPPS, JR.,	{ Carnagie, Phipps & Co., Pittsburgh, Penn.
Mrs. R. A. PROCTOR,	St. Joseph, Missouri.
A. COWPER RANYARD,* F. R. A. S.,	{ 11 Stone Buildings, Lincoln's Inn, London, England.
J. W. STATELER,	957 Market Street, S. F., Cal.
Hon. J. W. TOWNER,	Santa Ana, Orange Co., Cal.
FRED'K W. ZEILE,*	Pacific Union Club, S. F., Cal.

Professor W. STEADMAN ALDIS, University College, Auckland, New Zealand, was duly elected a life member.

It was on motion duly seconded,

Resolved, That a new diploma be issued to Dr. J. C. HAWVER, to replace his original diploma, destroyed by an accidental fire.

Resolved, That the President and Secretary be authorized to make application to the California Academy of Sciences, for space in the new Academy

* An asterisk (*) is affixed to the names of Life Members duly elected.

building, and that Mr. PIERSON, Vice-President, be given full power as to the disposition of the space in question.

Resolved, That the resolution of May 31, 1890, fixing the bond of the Treasurer at \$5000 be rescinded, and

Resolved, That the amount of the said bond to be given for the present year be fixed at \$500.

MINUTES OF THE MEETING OF THE ASTRONOMICAL SOCIETY OF
THE PACIFIC, HELD AT THE LICK OBSERVATORY,
JULY 12, 1890.

The minutes of the last meeting were read and approved.

The Secretary read a list of presents received since the last meeting, and the thanks of the Society were voted to the givers.

The list of new members elected was read by the Secretary.

A silver-print of a crayon drawing made from negatives of the Solar Eclipse of January 1, 1889, by Rev. C. M. CHARROPPIN, was exhibited to the meeting. Mr. HOLDEN also exhibited the first enlargements of the planet *Jupiter*, made by the great telescope on July 8, 1890. The planet is photographed direct, so that the major axis is nine-tenths of an inch, and the results are very promising. It seems likely that the history of the larger changes on the planet's surface can be satisfactorily followed by means of such pictures, leaving the study of the minuter features to visual observation.

The following papers were presented :

- a.* Dr. W. MEYER : "The Urania Gesellschaft of Berlin."
- b.* Prof. E. S. HOLDEN : "Astronomical Photography at the Lick Observatory."
- c.* J. E. KEELER : "The Chromatic Aberration of the Thirty-six-inch Equatorial."
- d.* Rev. GEO. M. SEARLE : "Are the Planets Habitable?"
- e.* Prof. I. STRINGHAM : "On Hyperbo-Elliptic Functions."
- f.* Miss AGNES M. CLERKE : "On the Multiple System of *Zeta Cancri*."

Only papers *a* and *c* were read. All are printed in the present number of the *Publications*.

Adjourned.